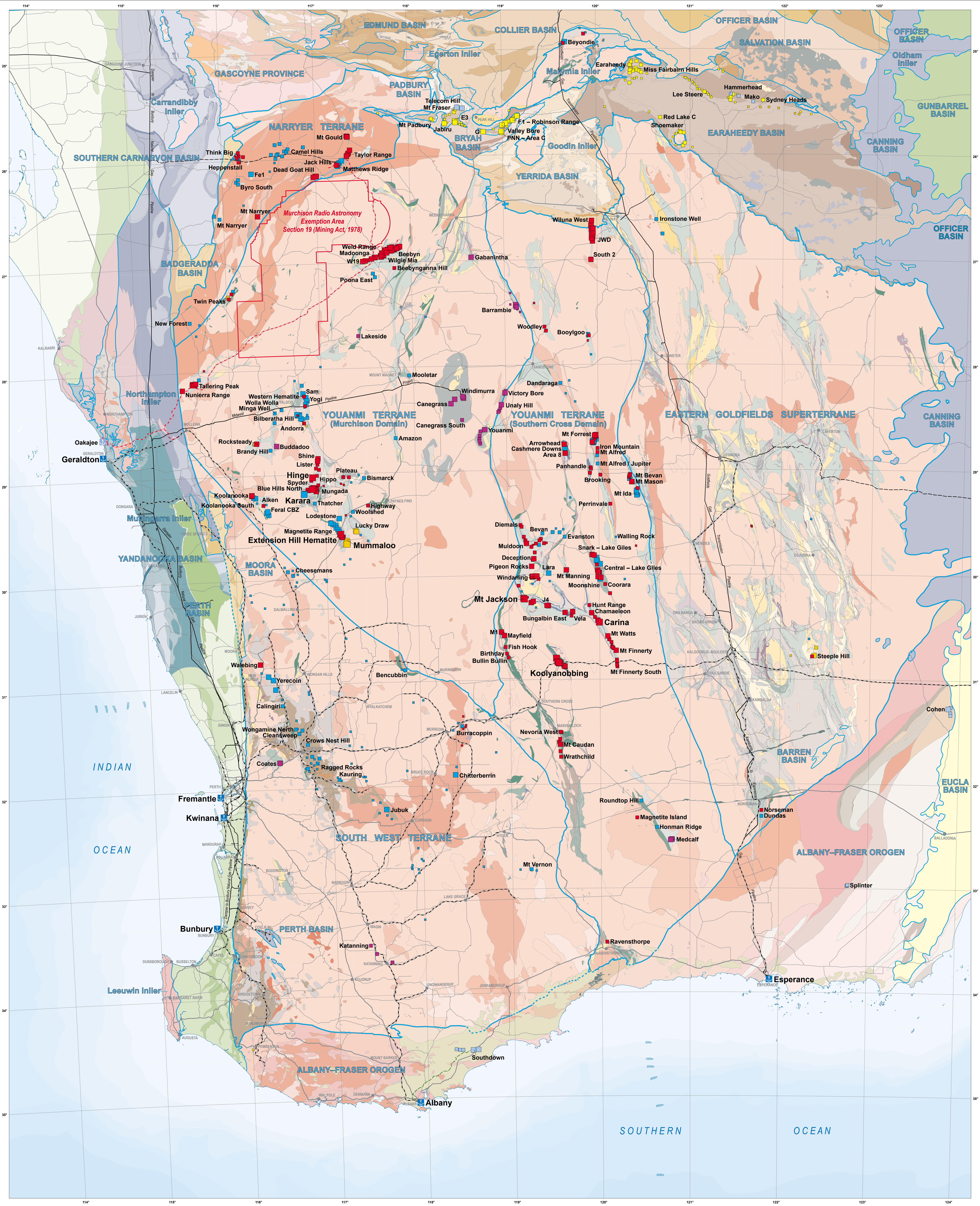


# IRON ORE DEPOSITS OF THE YILGARN CRATON — 2015



## SITE TYPE AND STATUS

- Mt Jackson** ☐ Mine — operating or under development
- Deception** ☐ Mine — closed or proposed, or undeveloped deposit with a resource estimate
- Beyondie** ☐ Undeveloped prospect without a resource estimate
- ☐ Undeveloped exploration target or occurrence

## MINERALIZATION STYLES

- ☐ Plutonic and iron-rich rhyolite paleochannel mineralization or channel iron deposits (CID)
- ☐ Stratabound, clastic-hosted deposits — supergene enriched in Proterozoic basins
- ☐ Stratabound, clastic-hosted deposits — primary magnetite in detritals or banded iron-formation (BIF) in Proterozoic basins and the Albany-Fraser Orogen
- ☐ Supergene enriched hematite-goethite deposits derived from banded iron-formation or minor ultramafic rocks in granite-greenstone terranes
- ☐ Primary banded iron-formation deposits or their metamorphosed equivalents (magnetite) in granite-greenstone terranes
- ☐ Orthomagmatic layered mafic intrusives targeted for both iron (magnetite) and V-Ti (ilmenite) in granite-greenstone terranes

- ☐ Tectonic boundary — Yilgarn Craton
- ☐ Tectonic boundary — Yilgarn Craton, concealed
- ☐ Tectonic boundary — other
- ☐ Port, operating
- ☐ Port, proposed
- ☐ Townsite / locality
- ☐ Highway / major road
- ☐ Road
- ☐ Railway, operating
- ☐ Railway, proposed
- ☐ Gas pipeline, operating
- ☐ Gas pipeline, proposed
- ☐ Oil pipeline, operating
- ☐ Slurry pipeline (magnetite concentrate), proposed
- ☐ Coastline

| Theme  | Data Currency | Organization <sup>1</sup>   |
|--|---------------|---|
| Interpreted bedrock geology of Western Australia | 2008          | Geological Survey of Western Australia, Department of Mines and Petroleum |
| Iron ore sites (MINEDEX)                         | May 2015      | Geological Survey of Western Australia, Department of Mines and Petroleum |
| Murchison Radio Astronomy Exemption Area         | May 2015      | Department of Mines and Petroleum   |
| Gas pipeline                                     | Jan 2015      | Department of Mines and Petroleum   |
| Topography                                       | 2013          | Landsat   |
| Bathymetry                                       | 2002          | Department of Transport   |

<sup>1</sup> DMP data can be viewed interactively via GeoVIEW WA: [www.dmp.wa.gov.au/geoview/](http://www.dmp.wa.gov.au/geoview/), and related datasets can be downloaded from the "GISRA Data and Software Centre" [www.dmp.wa.gov.au/geoview/](http://www.dmp.wa.gov.au/geoview/)

<sup>2</sup> WA State Government unless otherwise indicated

Compiled by RW Cooper 2015

Geology and features boundaries based on:

(1) Cassidy, KF, Champion, DC, Koppal, B, Bailey, ME, Brown, SJA, Burrell, RS, Cronin, WJ, and Tyler, W 2005. A revised geological framework for the Yilgarn Craton, Western Australia. Geological Survey of Western Australia, Record 2005/8, 8p.

(2) Tyler, W and Hocking, RM (compilers) 2007. Tectonic units of Western Australia, 1:500,000 — Preliminary version. Geological Survey of Western Australia, digital data layer.

(3) Tyler, W and Hocking, RM (compilers) 2008. Interpreted bedrock geology of Western Australia, 1:500,000. Geological Survey of Western Australia, digital data layer.

Information on mines, deposits, prospects, and other occurrences was extracted from the DMP Mines and Mineral Deposits (MINEDEX) database: [www.dmp.wa.gov.au/mines/](http://www.dmp.wa.gov.au/mines/), viewed May 2015.

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Department of Mines and Petroleum

Geological Survey of Western Australia



0 20 40 60 80 100 120 140 160 180 200  
Kilometres

ALBERS EQUAL AREA PROJECTION WITH CENTRAL MERIDIAN 121° AND STANDARD PARALLELS 17° 30' AND 31° 30'  
HORIZONTAL DATUM: GEODESIC DATUM OF AUSTRALIA 1984 (GDA84)

6DA

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